SEQUENCE LISTING

KISAKA, HIROAKI <110> KIDA, TAKAO

<120> A method for producing transgenic plants having improved amino acid composition

- <130> 245710US0CONT
- <140> new application
- <141> 2003-12-16
- <150> PCT/JP01/05077
- <151> 2001-06-14
- <160> 26
- <170> PatentIn version 3.1
- <210>
- <211> 1433
- <212> DNA
- <213> Aspergillus nidulans

<400> atgtetaace tteeegttga geeegagtte gageaggeet acaaggaget tgegtegace 60 etegagaact ceaccetett tgageageae eetgaataee gaegggetet eeaggtegte 120 teegtteeeg agegegttat ceagtteegt gtegtttggg agaacgacaa gggegaggtt 180 cagatcaacc gcggttaccg tgttcagttc aactccgctc tcggtcccta caagggtggt 240 ctccgtttcc acccctccgt caacctttct atcctgaagt tccttggctt cgagcagatc 300 ttcaaaaatg ctctcacagg acgtgcgtaa ccgttacttc attggatgtt tgccaagagt 360 actaattggt attagtaaac atgggtggtg gcaagggtgg ttccgacttc gaccccaagg 420 gcaagtctga ctctgaaatt cgtcgcttct gtaccgcttt catgactgag ctctgcaagc 480 acateggege ggacactgae ettecegetg gtgatategg tgttaetgge egtgaggttg 540 gtttcctttt cggccagtac cgcaggatcc gcaaccagtg ggagggtgtt ctcactggca 600 agggtggcag ctggggtggt agcttgatcc gccctgaagc cactggatac ggtgttgtct 660 actacgttca gcacatgatc aagcacgtta ccggtggaaa ggagtccttc gcaggcaagc 720 gtgtcgccat ctccggctcc ggtaacgttg cccagtacgc cgctctcaag gtcatcgagc 780 toggtggttc cgttgtctcc ctttccgact ccaagggctc tctcattgtc aaggatgagt 840 ccgcttcttt cacccctgaa gagatcgccc tcattgccga cctcaaggtt gcccgcaagc 900 aactotocga gotogocaco tootoogott togooggoaa gttoacotac atcocogatg

960

ctcgcccttg gaccaacatt cccggcaagt tcgaggttgc tctcccttct gccactcaga 1020 acgaagtete eggegaggaa geegageace teateaagte eggtgteege tatattgetg 1080 agggttccaa catgggttgc acccaggccg ccatcgacat ctttgaggct caccgcaacg 1140 ccaaccccgg cgatgccatc tggtacgccc ctggtaaagc cgccaacgct ggtggtgtcg 1200 ccgtctctgg tcttgagatg gctcagaact ctgctcgtct ctcctggaca tccgaggagg 1260 tcgatgctcg cctcaagggc atcatggagg actgcttcaa gaacggtctc gagactgctc 1320 agaagttcgc tactcctgcc aagggcgtcc tgccttccct cgtcaccggt tccaacattg 1380 ccggtttcac caaggtcgcc gaggccatga aggaccaggg tgactggtgg tga 1433

<210> 2

<211> 1240

<212> DNA

<213> Lycopersicon esculentum

<400> 2

atgaatgctt tagcagcaac taatagaaat tttaagctgg cagctaggct tcttggttta 60 gactcaaagt tggaactaag tctgctaatc cctttcagga aattaaggtg gagtgtacta 120 taccgaagga tgatggcaca ttggcatctt ttgttggatt cagggtacag cacgacaatg 180 cacgagggcc tatgaaaggc ggaatcagat accacccgga ggttgatcct gatgaggtga 240 atgcattage acagetaatg acatggaaga cageggtege caatattace atatggtggg 300 gctaaaggag gaataggatg tagtcctagt gacctgagta tctctgagtt ggaacgactt 360 actcgagtat ttactcaaaa aatacatgac ctaatcggaa ttcacaccga tgttcctgca 420 ccagatatgg gaacaaatcc tcagacaatg gcatggattt tagacgagta ctcaaaattt 480 catggttatt cacctgctgt ggtaactgga aaacctgttg atctcggtgg atctctaggc 540 agagatgcag ctactggaag ggggggctct ctttgctaca gaagccctgc ttaatgagca 600 tgggaagagt gttgctggtt cagcgttttg ttatacaggg atttggtaat gttggttcct 660 gggctgcaaa actcatccat gagcaaggtg ggaaagttgt agcagtgagt gacataactg 720 gtgccataaa gaatgagaag ggaatcgaca tagaaagcct attcaaacac gtgaaggaaa 780 ctcgtggagt taaaggtttc catgatgcac atccaattga tgcaaattca atactggtag 840 aagactgtga tgttcttatc ccagctgccc tcggtggagt aatcaacaag gataaccaca 900 aattgaaaat taaagccaaa tatattattg aggctgctaa ccatccaact gatccagaag 960 ctgatgagat ttgtcaaaga aaggagtcac catcctaccg gatatttatg ccaactcggg 1020

tggtgt	cacc gtcagttatt	ttgagtgggt	ccagaacatc	caaggcttta	tgtgggatga	1080
gaaaaa	agtg aatgatgagt	tgaagacata	catgacaaga	ggttttaaag	atgtcaagga	1140
tatgtg	caag actcacaact	gtgacctccg	aatgggcgcc	ttcaccttag	gtgttaaccg	1200
tgtagc	taga gcaaccgttc	: ttcgaggatg	ggaggcgtaa			1240
<210>	3					
<211>	28					
<212>	DNA					
<213>	<213> ARTIFICIAL SEQUENCE					
<220>						
<223>	SYNTHETIC DNA					
<400>	3					
tctaga	atgt ctaaccttco	: cgttgagc				28
<210>	4					
<211>	28					
<212>	DNA ·					
<213>	ARTIFICIAL SEC	UENCE				
		•				
<220>						
<223>	SYNTHETIC DNA					
<400>	4					
	tcac caccagtcac	cctggtcc		•		28
	J	33				
<210>	5		•			
<211>	27					
<212>	DNA					
<213>	ARTIFICIAL SEC	ÚENCE				
<220>						
<223>	SYNTHETIC DNA					
<400>	5					
tctaga	atga atgctttagc	agcaact				27
<210>	6					
<211>	27					
<212>	DNA					
<213>	ARTIFICIAL SEQ	UENCE				
<220>						
<220>	SYNTHETIC DNA					
~~~	DIMINISTIC DIVA					
<400>	6 ,			•		
gagetet	tac gcctcccatc	ctcgaag				27

anderson in the second of the production of the second The other second office of the second of

<210> <211> <212>	28 DNA	
<213>	ARTIFICIAL SEQUENCE	
<220>		
	SYNTHETIC DNA ·	
<400>		
tetaga	aatgt ctaaccttcc cgttgagc	28
<210>		
<211>		
<212>	ARTIFICIAL SEQUENCE	
(2137	ARITICIAL SEQUENCE	
<220>		
<223>	SYNTHETIC DNA	
<400>	,	
	o utgtt tagtcctgtg agag	24
caccco	teget tagettegeg agag	24
<210>		
<211> <212>		
	ARTIFICIAL SEQUENCE	
(010)	THE TOTAL DESCRIPTION	
<220>		
<223>	SYNTHETIC DNA	
<400>	٩	
	cagg actaaacatg ggtg	24
<210>	10	
<210>		
<212>		
<213>		
<220>		
<223>	SYNTHETIC DNA	
<400>	10	
gagctc	tcac caccagtcac cctggtcc	28
<210>	11 .	
<211>	26	
<212>	DNA	
<213>	ARTIFICIAL SEQUENCE	
.000		
<220> <223>	CVNTHETT C DNA	
<423>	SYNTHETIC DNA	

C400>		
ggatco	atga atgctttagc agcaac	26
<210>		
<211>		
<212>		
<213>	ARTIFICIAL SEQUENCE	
<220>		
<223>	SYNTHETIC DNA	
<400>	12	
tctaga	taaa ccaagaagcc tagctg	26
<210>	13	
<211>		
<212>		
<213>	ARTIFICIAL SEQUENCE	
<220>		
<223>	SYNTHETIC DNA	
<400>	13	
ctgcag	atgg cttcctcaat tgtctcatcg	30
<210>		
<211>		
<212>		
<213>	ARTIFICIAL SEQUENCE	
<220>		
<223>	SYNTHETIC DNA	
<400>	14	
tctaga	gcat ctaacgcgtc caccattgct	30
•		
<210>	15	
<211>	26	
<212>		
<213>	ARTIFICIAL SEQUENCE	
<220>		
<223>	SYNTHETIC DNA	
<400>	15	
tctaga	atga atgctttagc agcaac	26
<210>	16	
<211>	30	
<212>	DNA	
<213>		

<400>			
gggaa	ggtta gacattaaac caagaageet	30	
<210> <211>			
<212>	DNA		
	ARTIFICIAL SEQUENCE		
<220> <223>	SYNTHETIC DNA		
<400>			
aggett	ccttg gtttaatgtc taaccttccc	30	
<210>			
<211><212>			
	ARTIFICIAL SEQUENCE		
<220>	CANADA DA		
	SYNTHETIC DNA		
<400> gagcto	18 Ettac geeteecate etegaa	26	
<210>			
<211> <212>			
	ARTIFICIAL SEQUENCE		
<220>	SYNTHETIC DNA		
<400> ctgcac	19 gatgg cttcctcaat tgtctcatcg	30	
<210>	20		
<211>	24		
<212> <213>	DNA ARTIFICIAL SEQUENCE		
<220>			
	SYNTHETIC DNA		
<400> aaggtt	20 agac atgcatctac cgcg	24	
<210>	21		
<211>			

and the second s

<212> DNA	
<212> DNA <213> ARTIFICIAL SEQUENCE	
<220> <223> SYNTHETIC DNA	
(22) SIMINGIA DIA	
<400> 21	
cgcgttagat gcatgtctaa cctt	24
<210> 22 <211> 26	
<212> DNA	
<213> ARTIFICIAL SEQUENCE	
<220>	
<223> SYNTHETIC DNA .	
<400> 22	
gagetettae geeteecate etegaa	26
<210> 23 <211> 26	
<212> DNA	
<213> ARTIFICIAL SEQUENCE	
<220>	
<223> SYNTHETIC DNA .	
<400> 23	
aagettatat aacecaaaat atacta	26
<210> 24 <211> 26	
<211> 26 <212> DNA	
<213> ARTIFICIAL SEQUENCE	
<220>	
<223> SYNTHETIC DNA	
<400> 24	
tctagaggta ccattaattg ctaatt	26
<210> 25	
<211> 21 <212> DNA	
<212> DNA <213> ARTIFICIAL SEQUENCE	
<220> <223> SYNTHETIC DNA	
<400> 25	2.
ccctcggta tccaattaga g	21.
. 7	
•	

et en la kekan jot ekonomie en la la komune en la sala en la jato etkoloko en la la salajo de la morta de la k Morato en la la la telega en la la la la la komune en la la kekan jot en la kekan erreta en general en la la k

- <210> 26 <211> 24

<212> DNA - <213> ARTIFICIAL SEQUENCE

<220>

<223> SYNTHETIC DNA

<400> 26

cggggggtgg gcgaagaact ccag

24